



Technical Data Sheet

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Material: Ecomass® Compound 4703BI62

Nontoxic alternative to Lead (Pb), radiation shielding applications

Description / Features: Moderate Specific Gravity, Filled Polyurethane (TPU), Good Flexibility

Processing Method: Injection Molding

Physical Properties

Test Method	English		SI		
	Value	Units	Value	Units	
Physical Properties					
Product Form	Pellets		Pellets		
Density	ASTM D792	2.20	g/cc	2.20	g/cc
Mechanical Properties					
Tensile Strength	ASTM D638	3,000	psi	21	MPa
Tensile Modulus	ASTM D638	82,000	psi	566	MPa
Tensile Elongation at Break	ASTM D638	225	%	225	%
Flexural Modulus	ASTM D790	21,000	psi	145	MPa
Flexural Strength	ASTM D790	6,200	psi	43	MPa
Izod Impact Strength	ASTM D256	5.00	ft-lb/in	267	J/m
Processing Information					
Melt Temperature Range		400 - 430	°F	205 - 220	°C
Mold Temperature Range		50 -80	°F	10 - 25	°C
Mold Shrinkage Rate	ASTM D955	0.007 - 0.009	in/in	0.7 - 0.9	%
Pre-Drying Conditions	(do not over-dry)	2 hrs @ 180 °F		2 hrs @ 85 °C	

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